

In Intional Application No PCT/EP 03/14553

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A23L1/03 A23L1/30

1/30 C12N9/82

C12N9/80

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 A23L C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, EMBL

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Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2004/026043 A (PROCTER & GAMBLE) 1 April 2004 (2004-04-01)	1-12, 14-16, 18-22, 24-30
	page 3, line 25 -page 4, line 7; claims 1-11 examples 1-5	24 00
<u> </u>	WO 2004/032648 A (HELDT-HANSEN HANS PETER; JENSEN MORTEN TOVBORG (DK); STRINGER MARY) 22 April 2004 (2004-04-22). claims 1-50; figures 1,2 page 3, line 21 -page 6, paragraph 5	1-9,30
	-/	
χ Furth	er documents are listed in the continuation of box C. X Patent family members a	are listed in annex,

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but	 *I* later document published after the international filing date or priority date and not in conflict with the application but olled to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
11 May 2004	04/06/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Seroz, T



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lation) DOCHMENTS CONSIDERED TO BE DOLD THAT	PCI/EF 03/14553				
Category Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.					
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ANONYMOUS: "Mechanism(s) of Formation of Acrylamide in Food: Background" October 2002 (2002-10), XP002237515 Retrieved from the Internet: <url:http: acrylamide="" wg1="" wg1_mech_bg_paper.pdf="" www.jitsan.umd.edu=""> 'retrieved on 2003-04-03! Chapters I.B and IV.</url:http:>	1-9				
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ZYZAK D V ET AL: "Acrylamide formation mechanism in heated foods" JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 51, no. 16, 28 June 2003 (2003-06-28), pages 4782-4787, XP002276619 ISSN: 0021-8561					
	DATABASE EMBL 'Online! 27 January 1994 (1994-01-27) ATKINSOON ET AL: "Production of L-asparaginase" Database accession no. A14577 XP002279377 The nucleic acid sequence is 60% identical to SEQ ID No 1 in an overlap of 655 nucleotides. the whole document US 5 310 670 A (GOWARD CHRISTOPHER R) 10 May 1994 (1994-05-10) Sequence SEQ ID No 1 MOTTRAM ET AL.: "Brief Communications, ACRYLAMIDE IS FORMED IN THE MAILLARD REACTION" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 419, 3 October 2002 (2002-10-03), pages 448-449, XP002235161 ISSN: 0028-0836 the whole document ANONYMOUS: "Mechanism(s) of Formation of Acrylamide in Food: Background" October 2002 (2002-10), XP002237515 Retrieved from the Internet: <url:http: acrylamide="" wgi="" wgi_mech_bg_paper.pdf="" www.jitsan.umd.edu=""> 'retrieved on 2003-04-03! Chapters I.B and IV. FRIEDMAN N: "Chemistry, biochemistry, and safety of acrylamide. A review" JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 51, no. 16, 3 July 2003 (2003-07-03), pages 4504-4526, XP002276620 ISSN: 0021-8561 ZYZAK D V ET AL: "Acrylamide formation mechanism in heated foods" JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 51, no. 16, 28 June 2003 (2003-06-28), pages 4782-4787, XP002276619</url:http:>				

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

ernational application No. PCT/EP 03/14553

Box I	Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
з. [Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this International application, as follows:
	see additional sheet
t. 🗀	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. X	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
з	As only some of the required additional search fees were timely pald by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-9, 29, 30

Process for the production of a food product involving one heating step, comprising the addition of asparaginase to limit the formation of acrylamide during said heating step.

2. Claims: 10-28

Asparaginase from Aspergillus niger and method for producing it.

IMPERNATIONAL SEARCH REPORT

Information on patent family members

Ir ational Application No
PCT/EP 03/14553

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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US 5310670	A	10-05-1994	AT AU CA DE DK EP WO JP	135402 647819 8280591 2075289 69117956 69117956 541633 0541633 9202616 5508546	B2 A A1 D1 T2 T3 A1 A1	15-03-1996 31-03-1994 02-03-1992 03-02-1992 18-04-1996 25-07-1996 22-07-1996 19-05-1993 20-02-1992 02-12-1993